

Title (en)

SURFACE ACOUSTIC WAVE CONVERTER AND ACOUSTIC WAVE FILTER USING THE SAME

Title (de)

AKUSTISCHER OBERFLÄCHENKONVERTER UND AKUSTISCHES WELLENFILTER DAMIT

Title (fr)

CONVERTISSEUR D'ONDES SONORES DE SURFACE ET DISPOSITIF DE FILTRAGE ACOUSTIQUE L'UTILISANT

Publication

EP 0802627 B1 20030312 (EN)

Application

EP 96937539 A 19961108

Priority

- JP 9603284 W 19961108
- JP 29005795 A 19951108

Abstract (en)

[origin: WO9717757A1] A surface acoustic wave converter which is suitable for anisotropic piezoelectric substrates having the NSPUDT characteristic. The converter is provided with a converter structure having an exciting electrode structure (21) and a reflector structure (22) formed on an anisotropic piezoelectric substrate that is so cut that the substrate has an NSPUDT characteristic. The structure (21) is provided with a positive electrode (23) having a plurality of electrode fingers arranged at a pitch λ (λ is the wavelength of the basic surface acoustic wave) and a negative electrode (24) having an electrode finger between the electrode fingers of the positive electrode in such a way that the center-to-center distances between the fingers is $\lambda/2$. The reflector structure (22) has a plurality of electrode fingers so arranged that the center-to-center distances between the fingers are $\lambda/2$. The distance L_g between the structures (21 and 22) is $L_g = (2n+1) \lambda/4$ (n is a positive integer).

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H03H 9/145; **H03H 9/64**

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

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